

Amendments to the Claims

1. *(Previously presented)* An electric insulating material comprising a glass fiber layer and a mica layer disposed thereon, wherein the glass fiber layer comprises twist-free glass yarn.
2. *(Previously presented)* An electric insulating material according to claim 1, wherein the glass fiber layer is a woven glass fabric.
3. *(Previously presented)* An electric insulating material according to claim 1, additionally comprising at least one polymeric resin.
4. *(Previously presented)* An electric insulating material according to claim 3, wherein the polymeric resin comprises a thermosetting resin.
5. *(Previously presented)* An electric insulating material according to claim 3, wherein the polymeric resin comprises at least one epoxy resin.
6. *(Previously presented)* An electric insulating material according to claim 3, wherein the polymeric resin comprises at least one silicone resin.
7. *(Previously presented)* An electric insulating material according to claim 3, wherein the polymeric resin content ranges from about 3% to about 25% by weight.
8. *(Previously presented)* An electric insulating material according to claim 3, wherein the polymeric resin content ranges from about 5% to about 18% by weight.
9. *(Previously presented)* An electric insulating material according to claim 3, additionally comprising a cure accelerator.
10. *(Previously presented)* An electric insulating material according to claim 9, wherein the cure accelerator comprises a metal or an amine.

11. **(Currently amended)** An electric insulating material according to claim 3, wherein the polymeric resin content ranges from ~~about by weight~~ about 25% to about 50% by weight.
12. **(Previously presented)** An electric insulating material according to claim 3, wherein the polymeric resin content ranges from about 27% to about 45% by weight.
13. **(Previously presented)** An electric insulating material according to claim 1, in the form of a tape.

Claims 14 to18 (*Withdrawn*)

19. **(Currently amended)** A high temperature insulated wire manufactured using a process according to claim 16, by:
wrapping an electrical conductor suitable for high temperature environments with an electric insulating material comprising a glass fiber layer comprising a twist-free glass yarn and a mica layer disposed thereon;
wherein said wire is rated for operation at temperatures up to 450°C.
20. **(Currently amended)** A high temperature insulated wire comprising a wire suitable for high temperature environments wrapped with a tape according to claim 16, comprising a glass fiber layer comprising a twist-free glass yarn and a mica layer disposed thereon, wherein said high temperature wire is rated for operation at temperatures up to 1100°C.
21. **(Currently amended)** A high temperature insulated coil manufactured using a process according to claim 17 by:
wrapping an electrical conductor with an electric insulating material comprising a glass fiber layer comprising a twist-free glass yarn and a mica layer disposed thereon,
22. **(New)** An electric insulating material according to claim 1, wherein the twist-free glass yarn comprises zero-twist glass yarn.

23. (*New*) An electric insulating material according to claim 1, wherein the material comprises a greater mica content for a given material thickness compared to a material comprising a non-twist free glass yarn having about the same material thickness.
24. (*New*) An electric insulating material according to claim 1, wherein the material comprises a greater mica-to-glass ratio for a given material thickness compared to a material comprising a non-twist free glass yarn having about the same material thickness.
25. (*New*) An electric insulating material according to claim 3, wherein the material comprises a lower total polymeric resin content compared to a material comprising a non-twist free glass yarn.
26. (*New*) An electric insulating material according to claim 1, wherein the material comprises a lower dissipation factor (DF) compared to a material comprising a non-twist free glass yarn.
27. (*New*) An electric insulating material according to claim 1, wherein the material comprises a lower dissipation factor (DF) at 160 degrees C at a given mica weight compared to a material comprising a non-twist free glass yarn having about the same mica weight.
28. (*New*) An electric insulating material comprising a glass fiber layer, a mica layer disposed thereon, and at least one polymeric resin, wherein the glass fiber layer comprises twist-free glass yarn obtained by the following process steps:
 - (a) providing a fiberglass forming package with a single fiberglass strand wound on the package and having a longitudinal axis;
 - (b) supporting the package in a manner that permits rotation of the package about the longitudinal axis;
 - (c) pulling the single strand from the package along the longitudinal axis and simultaneously rotating the package about the longitudinal axis while maintaining a rotational surface speed of the package equal to a linear speed of pulling the single strand and in a direction

of rotation such that the fiberglass strand is pulled off the package with a net zero amount of twist; and

(d) wrapping the single strand which is pulled from the package onto a beam which can be used to form a warp beam.